

With Reinforced Resin Cage (FG cage), HIGH PERFORMANCE BALL BEARINGS



FEATURES

(Compared with pressed steel cage)

- (1) 1.5 times high speed allowable
- (2) 2 times longer grease life
- (3) 2 times seizure resistance
- (4) Low temperature rise
- (5) Light weight

CAGE MATERIAL and CHARACTERISTIC

Composition	Base material	Polyamide 66 (nylon 66)	
	Reinforcing material	25% glass fiber	
Specific gravity		1.31	
Mechanical strength	Tensile strength	MPa	167
	Flexural strength	MPa	235
	Impact strength	J/m	78
Operating temperature range		°C	-30~150
Thermal expansion coefficient		1/°C	3×10^{-5}
Fusing point		°C	260
Heat resistance	Long term	°C	150
	Temporal ¹⁾	°C	180

Note 1) Within total 30 minutes

Remarks 1. Values of mechanical strength are in the absolute dried condition.

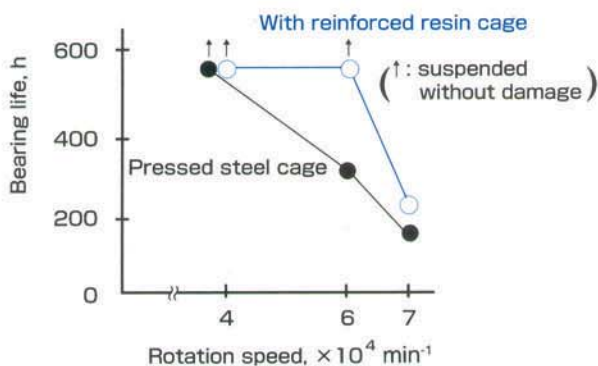
2. Under the condition of gear oils with extreme pressure additives, etc., upper limit of operating temperature becomes 20~30°C lower.

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Performance

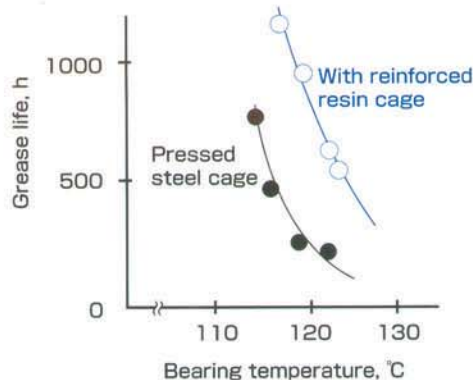
1. High-speed

Bearing : 626ZZ
Lubrication : filling with grease
Temperature : room temperature



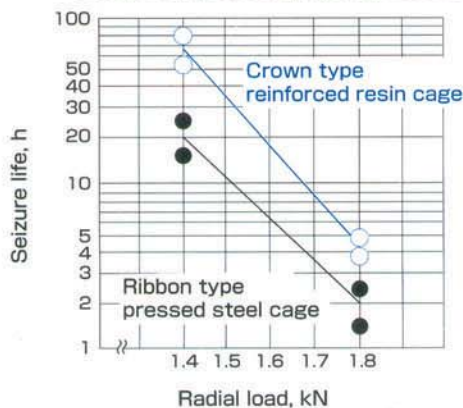
2. Grease life under moment load

Bearing : 6000ZZ
Rotation speed : 10 000 min^{-1}
Lubrication : filling with grease
Moment load : 0.04 N·m



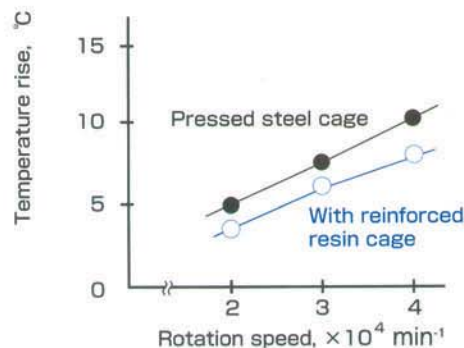
3. Seizure resistance under poor lubrication

Bearing : 6302
Rotation speed : 8 000 min^{-1}
Lubrication : applying kerosine



4. Temperature rise

Bearing : 608ZZ
Lubrication : filling with grease
Load : 49 N



5. Rotating torque, noise... Same or better than bearing with pressed steel cage type.

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